

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/992,560	GONSALVES, KENNETH E.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Sin J. Lee	1752	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 6-9-05.
2. ☒ The allowed claim(s) is/are 11,14,17,19-32,34-42,44-55,57-59,62,65-71,75-79 and 81-101.
3. ☒ The drawings filed on 05 November 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

### REASONS FOR ALLOWANCE

1. Applicant canceled claims 33 and 43.
2. In view of Gonsalves's Affidavit under 37 CFR 1.132, previous 102(a) rejection on claims 22-49, 51-55, 57-59 and 62 over Gonsalves et al (Materials Research Society Symposium Proceedings (2001)) and previous 103(a) rejection on claim 50 over Gonsalves in view of Barclay et al'086 are hereby withdrawn.
3. In view of amendment of June 9, 2005, previous 102(b) rejection on claims 38-40, 42, 47, 51, 52, 55, and 57 over Aoai et al'250 and previous 103(a) rejection on claims 53 and 54 over Aoai in view of Barclay et al'086 are hereby withdrawn.
4. In view of amendment of June 9, 2005, previous 102(b) rejection on claims 38-40, 42, 51, 52 and 55 over Aogo et al (JP'852) and previous 103(a) rejection on claims 53 and 54 over Aogo et al in view of Barclay et al'086 are hereby withdrawn.
5. Previous *provisional* obviousness-type double patenting rejection on claims 38, 39, 42, 43, 51, 52, 55 and 62 over copending App. No. 10/835,757 and previous *provisional* obviousness-type double patenting rejection on claims 22-25, 29-33, 35-46, 49-55, 58, 59 and 62 over copending App. No. 10/324,642 are hereby withdrawn since those two provisional obviousness-type double patenting rejections are the only rejections left in present application.
6. The following is an examiner's statement of reasons for allowance:

As previously indicated, none the presently or previously cited references teaches or suggests present combination of polyhedral oligosilsesquioxane and poly( $\alpha$ -chloroacrylate-co- $\alpha$ -methyl styrene) of claims 11 and 14.

Neither Aoi et al'250 nor Aogo et al (JP'852) teaches or suggest present photoacid generating component which comprises [*p*-CH<sub>2</sub>=C(CH<sub>3</sub>)C(O)OC<sub>6</sub>H<sub>4</sub>SMe<sub>2</sub>]OSO<sub>2</sub>CF<sub>3</sub> of present claim 38.

As previously indicated, none of the presently or previously cited references teaches or suggests present polyacetal polymer of claim 65 into which a polyhedral oligosilsesquioxane disilanol component is incorporated.

As indicated above in Paragraph 1, Applicant overcame previous 102(a) rejection on claims 22-49, 51-55, 57-59 and 62 over Gonsalves et al (Materials Research Society Symposium Proceedings (2001)) and previous 103(a) rejection on claim 50 over Gonsalves in view of Barclay et al'086 by submitting Gonsalves's Affidavit under 37 CFR 1.132.

None of the presently cited or previously cited references teaches or suggests *present polymer of claim 84*, which comprises a methacrylate component, a polymerizable photoacid generating component *and* a polyhedral oligosilsesquioxane component.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

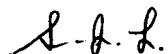
7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sin J. Lee whose telephone number is 571-272-1333.

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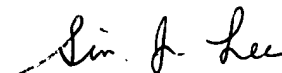
The examiner can normally be reached on Monday-Friday from 9:00 am EST to 5:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly, can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



S. Lee  
August 19, 2005



**SIN LEE**  
**PRIMARY EXAMINER**